SUTR: BIOPHARMA

2022 KOL Discussion of STRO-002 Phase 1 Interim Dose Expansion Data

January 5, 2022 5:00pm ET / 2:00pm PT

> Sutro Biopharma NASDAQ: STRO



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Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors, including risks and uncertainties related to our cash forecasts, our and our collaborators' ability to advance our product candidates, the receipt and timing of potential regulatory submissions, designations, approvals and commercialization of product candidates, the timing and results of preclinical and clinical trials, and the expected impact of the COVID-19 pandemic on our operations. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. These factors, together with those that may be described in greater detail under the heading "Risk Factors" contained in our most recent Annual Report on Form 10-K, Quarterly Report on Form 10-Q and other reports the company files from time to time with the Securities and Exchange Commission, may cause our actual results, performance or achievements to differ materially and adversely from those anticipated or implied by our forward-looking statements.

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This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.



Today's Agenda January 5, 2022

Торіс	Speakers
Opening Comments	
Welcome & Agenda Review Forward-Looking Statements	Ed Albini, Chief Financial Officer
CEO Opening Comments Study Objectives and Overview	Bill Newell, Chief Executive Officer
Data Presentation	
Study Objectives and Overview STRO-002 Phase 1 Dose Expansion Interim Data	R. Wendel Naumann, M.D., Professor & Director of Gynecologic Oncology Research, Associate Medical Director of Clinical Trials, at Levine Cancer Institute, Atrium Health Arturo Molina, M.D. , MS, FACP, Chief Medical Officer
Summary Next Steps for STRO-002	Arturo Molina, M.D., MS, FACP
Closing	Bill Newell
Q&A	
	R. Wendel Naumann, M.D. Bill Newell Arturo Molina, M.D., MS, FACP Trevor Hallam, Ph.D., President of Research and Chief Scientific Officer Ed Albini



Welcome Dr. R. Wendel Naumann Phase 1 STRO-002-GM1 Co-Principal Investigator



R. Wendel Naumann, M.D.

Professor & Director of Gynecologic Oncology Research Associate Medical Director of Clinical Trials, Levine Cancer Institute, Atrium Health Sutro Biopharma Clinical Advisory Board

Dr. Naumann is currently the Director of Minimally Invasive Surgery in Gynecologic Oncology and Professor in the Department of Ob/Gyn at the Levine Cancer Institute, Atrium Health.

Dr. Naumann did his residency in Obstetrics and Gynecology as well as his fellowship in Gynecologic Oncology at the University of Alabama School of Medicine in Birmingham.

Dr. Naumann has served as a board member on the Executive Council of the Society of Gynecologic Oncology (SGO) and the Chair of Education Committee and is currently the co-director of the SGO Winter meeting.

He has an interest in chemotherapy development including targeted therapies and immune therapies and runs the phase I trials in gynecologic oncology at the Levine Cancer Institute. He has served as a member of the GOG/NRG corpus committee and the Developmental Therapeutics committee.



Patient Baseline Characteristics

	Randomized	Total				
Ovarian Cancer Patients	4.3 mg/kg N=23	5.2 mg/kg N=20	N=43			
Median age, years (range)	63 (39–91)	56 (40–72)	60 (39–91)			
Median time since diagnosis, years (range)	1.8 (0.9–4.4)	2.9 (0.7–5.1)	2.8 (0.7–5.1)			
Number of prior lines of therapy						
Median	3.0	2.0	2.0			
Mean (St. Dev.)	2.5 (0.95)	2.5 (1.05)	2.5 (0.98)			
Previous Therapies, n (%)						
bevacizumab	13 (57%)	14 (70%)	27 (63%)			
PARP Inhibitor	15 (65%)	13 (65%)	28 (65%)			

Patient Status as of November 8, 2021







Note: Data as of Nov. 8, 2021. 5 PRu were of interest and followed up subsequent to the data cutoff date. 4 PR confirmed at their next scheduled scan and 1 was SD.



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Dose Expansion

	Starting Dose						
Best Overall Response (BOR)	4.3 mg/kg	5.2 mg/kg	All Comers				
Evaluable patients	N=16	N=17	N=33				
PR	3	4	7				
PR confirmed by next scheduled scan post Nov. 8, 2021	0	4	4				
Total PR	3	8	11				
ORR (%)	18.8%	47.1%	33.3%				
SD	10	4	14				
PD	3	5	8				

- 47.1% ORR in patients starting at the 5.2 mg/kg dose level
- 33.3% ORR in all patients
- Interim data suggests that 5.2 mg/kg starting dose leads to higher response rates
- All 4 patients with PRu treated at 5.2 mg/kg were subsequently confirmed at the next scheduled scan

Note: Data as of Nov. 8, 2021. 5 PRu were of interest and followed up subsequent to the data cutoff date. 4 PR confirmed at their next scheduled scan and 1 was SD.





Change in Sum of Diameters for Target Lesions Over Time (N=33)

Weeks since first treatment



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Dose Expansion





Individual patients treated with STRO-002



Initial data show **partial** responses confirmed & maintained following dose adjustment

Median Duration of Response has not been reached and 23 of 43 patients remained on study at Nov. 8, 2021

Data to inform **RP2D with** final decision pending more data maturity

Platinum-Resistant Ovarian Cancer Patient Treated at 4.3 mg/kg Dose Level Ongoing Partial Response with 72% reduction in tumor burden

Initial diagnosis: Stage IV ovarian cancer, Jan 2020 3 Prior Regimens: Resistant to 1st Neoadjuvant / adjuvant Carbo / Taxol / Taxotere Refractory to 2nd and 3rd with progressive disease • Liposomal doxorubicin • Gemcitabine





ORR by TPS Expression Levels (Total Samples N=33)

TPS	Overall	TPS ≤ 25%	TPS > 25%	TPS > 50%	TPS > 75%
ORR	33.3%	12.5%	40.0%	42.1%	43.8%
Number of patient samples	N=33	N=8	N=25	N=19	N=16
PR ⁽¹⁾	11	1	10	8	7
Potential Market Size (%)	100%	~ 30%	~ 70%		

TPS > 25% suggests ~**70% of the patient population** may benefit from STRO-002

Tumor Proportion Score (TPS)

- Percent of tumor cells showing staining of any intensity
- Does not require analysis of intensity levels and easy to score
- Commonly used in clinical practice
- Established reproducibility across different biomarkers (e.g., PD-L1)



⁽¹⁾ PR classification includes the 4 of 5 patients who were confirmed by their next scheduled scan after Nov. 8, 2021. **Note:** Data as of Nov. 8, 2021.

Emerging Safety Profile is Manageable and Consistent with Prior Studies No new safety signals were observed, including the absence of keratopathy

Most Common G3+ TEAEs (≥2 Subjects) by Dose

	4.3 mg/Kg (N=23)			5.2 mg/Kg (N=20)			Total (N=43)		
	Grade 3 n (%)	Grade 4 n (%)	Grade 5 n (%)	Grade 3 n (%)	Grade 4 n (%)	Grade 5 n (%)	Grade 3 n (%)	Grade 4 n (%)	Grade 5 n (%)
Subjects reporting at least 1 event	13 (57)	4 (17)	0	8 (40)	8 (40)	1 (5)	21 (48)	12 (28)	1 (2)
Neutropenia (1)	10 (44)	4 (17)	0	6 (30)	8 (40)	1 (5)	16 (37)	12 (28)	1 (2)
Febrile Neutropenia	1 (2)	0	0	0	0	1 (5)	1 (2)	0	1 (2)
White blood cell count decreased	4 (17)	1 (4)	0	1 (5)	2 (10)	0	5 (12)	3 (7)	0
Anemia	1 (4)	0	0	3 (15)	0	0	4 (9)	0	0
Arthralgia	4 (17)	0	0	0	0	0	4 (9)	0	0
Diarrhea	2 (9)	0	0	0	1 (5)	0	2 (5)	1 (2)	0
Platelet count decreased	2 (9)	0	0	1 (5)	0	0	3 (7)	0	0
Thrombocytopenia	0	0	0	2 (10)	0	0	2 (8)	0	0
Vomiting	0	0	0	2 (10)	0	0	2 (8)	0	0
Fatigue	2 (9)	0	0	0	0	0	2 (8)	0	0
Activated partial thromboplastin time prolonged	2 (9)	0	0	0	0	0	2 (8)	0	0
Hyponatremia	2 (9)	0	0	0	0	0	2 (8)	0	0
Neuralgia	2 (9)	0	0	0	0	0	2 (8)	0	0
Acute kidney injury	0	0	0	2 (10)	0	0	2 (8)	0	0

Neutropenia was the leading TEAE, resulting in treatment delay or dose reduction

- Neutropenia resolved with 1 week delay ± G-CSF, in the majority of cases
- Febrile neutropenia is rare
 - One Grade 5 event at the 5.2 mg/kg dose cohort
 - One Grade 3 event at the 4.3 mg/kg dose cohort
- Protocol was updated to require dose reduction for Grade 4 neutropenia
- Dose reductions ameliorated neutropenia

(1) Neutropenia included the following preferred terms: neutropenia, febrile neutropenia, and neutrophil count decreased. **Note**: Data as of Nov. 8, 2021.



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Dose Expansion

Dose Expansion Data Provide Initial Insights on Go-Forward Strategy Emerging data show dose response and a path for potential enrichment strategy

Dose Expansion

Overall Efficacy

Total of **11 confirmed PR**⁽¹⁾ out of **33 RECIST v1.1** evaluable patients

33% ORR, across all FolRa expression levels and both dose levels Dose Response

Dose response was demonstrated

47% ORR (8/17)⁽¹⁾ in unenriched patients starting at the 5.2 mg/kg dose level

Initial data suggests responses at 5.2 mg/kg are maintained, even when subsequent dose reductions are implemented



Using **TPS**, interim data suggests > 25% expression levels are correlated with higher clinically meaningful response rate, with 40% ORR (10/25)⁽¹⁾ observed in both dose levels and an enriched patient population

Based on our patient observations, we believe STRO-002 may be an appropriate therapy for ~70% of these patients Safety

No new safety signals were observed, including the absence of keratopathy

Neutropenia was the leading TEAE, resulting in treatment delay or dose reduction

Protocol was updated to require dose reduction for Grade 4 neutropenia

(1) PR classification includes the 4 of 5 patients who were confirmed by their next scheduled scan after Nov. 8, 2021. **Note**: Data as of Nov. 8, 2021.



Expanding the STRO-002 Franchise

Additional clinical studies in ovarian & endometrial, and nonclinical work on other tumor types

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Q&A Session

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